NAME

getenv, **initenv**, **popenv**, **pushenv**, **putenv**, **setenv**, **unsetenv**, – environment variable functions

SYNOPSIS

#include <stdlib.h>

char ***getenv**(const char ***name**);
int **initenv**(void);
void **popenv**(void);
int **pushenv**(void);
int **putenv**(const char ***string**);
int **setenv**(const char ***name**, const char ***value** , int **overwrite**);
void **unsetenv**(const char ***name**);

DESCRIPTION

These functions set, unset and fetch environment variables from the host *environment list*. For compatibility with differing environment conventions, the given arguments *name* and *value* may be appended and prepended, respectively, with an equal sign.

The *getenv* function obtains the current value of the environment variable, *name*. If the variable *name* is not in the current environment, a null pointer is returned.

The *setenv* function inserts or resets the environment variable *name* in the current environment list. If the variable *name* does not exist in the list, it is inserted with the given *value.* If the variable does exist, the argument *overwrite* is tested; if *overwrite* is zero, the variable is not reset, otherwise it is reset to the given *value.*

The *putenv* function performs the equivalent of:

```
setenv(name, value, 1);
```

and expects *string* to be of the form *name*=*value*.

The *unsetenv* function deletes all instances of the variable name pointed to by *name* from the list.

The *initenv*, *pushenv*, and *popenv* functions are non−standard and provided as part of the Orca/Gno distribution.

The *initenv* function is used to initialize the *environ* variable, since this functionality is provided by neither shell. It is necessary to use *initenv* before any explicit references to *environ*, but if *environ* is not to be referenced, it is not necessary to call *initenv* at all.

Pushenv and *popenv* are used to push and pop, respectively, the environment stack. See *environ* (8) for more information.

RETURN VALUES

The functions *initenv*, *pushenv*, *putenv*, and *setenv* return zero if successful; otherwise the global variable *errno* is set to indicate the error and a −1 is returned.

ERRORS

ENOMEM – The functions *initenv*, *pushenv*, *putenv*, or *setenv* failed because they were unable to allocate memory for the environment.

CAVEATS

If *environ* has been modified without using the library routines, then the internal shell variables and the shell environment represented by *environ* will not be consistent. Also, since environ entries are dynamically allocated and freed, modifying those entries without using the library routines may result in memory trashing and unpredicable behavior.

BUGS

None are known at this time. Send bug reports to Devin Reade at one of the addresses below. If you cannot contact me at those addresses, look for me on the Internet comp.sys.apple2.* newsgroups.

AUTHORS

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The environ library also contains code is derived from software contributed to Berkeley by the American National Standards Committee X3, on Information Processing Systems. Those portions are copyright (c) 1988, 1991. The Regents of the University of California. All rights reserved.

SEE ALSO

csh(1), **gsh**(1), **sh**(1), **execve**(2), **environ**(7),

HISTORY

The functions *setenv* and *unsetenv* appeared in **v7**. The *putenv* function appeared in **4.3 Reno**.